

KINGFISHER PLUS

Easy-to-deploy remote telemetry with hardware, software and cyber resilience







The Kingfisher Plus from Ovarro is a highly-resilient and secure module remote telemetry unit (RTU) for critical and remote SCADA applications. Powerful and reliable, Kingfisher RTUs are easy to configure and deploy with built-in programming shortcuts, providing a secure and reliable connection to your assets.



Kingfisher RTUs have already proven themselves with decades of 24/7 operation. The unit serves as a “black box”, continuously verifying and recording site operations. They are resilient to the environment, operate around-the-clock, report upon and log all key events and manage all site communications.

FEATURES & BENEFITS AT A GLANCE:

Kingfisher RTUs support multiple levels of redundancy, so that even if an extreme event happens and a part of the Kingfisher RTU is damaged, operations are not compromised. Dual processors, dual power supplies and multiple communications ports ensure that no single fault will stop the RTU from operating. The Kingfisher's features include:

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|  <ul style="list-style-type: none"> • Multiple redundancies for CPU, power and communications <ul style="list-style-type: none"> – To reduce the risk of system failures, Kingfisher RTUs provide redundant processor, power supply and communications modules. |  <ul style="list-style-type: none"> • Fast deployment and configuration <ul style="list-style-type: none"> – The Kingfisher Plus's SD card cloning capabilities allow greater storage and data back-up and support a faster setup. |
|  <ul style="list-style-type: none"> • Modular system with advanced processing <ul style="list-style-type: none"> – A modular system allows you to install only what you need so it grows as your network does, helping you manage your capital and operational expenditure (CAPEX and OPEX). |  <ul style="list-style-type: none"> • Rugged and robust for the harshest environments <ul style="list-style-type: none"> – The Kingfisher Plus can operate across a wide temperature range, from -40°C to +85°C. There is up to 5,000V of isolation between cards to protect against external power disturbances. |
|  <ul style="list-style-type: none"> • Online Software Changes <ul style="list-style-type: none"> – Changes to the IEC61131-3 program can be sent to the RTU without requiring a full download or restart, accelerating software development and commissioning tasks. |  <ul style="list-style-type: none"> • Direct access to diagnostics <ul style="list-style-type: none"> – With the unit's OLED and LED display, you have direct access to diagnostics to identify issues faster and without any tools. |

Kingfisher RTUs can be utilised for the remote management and co-ordination of single-purpose safety devices. Each Kingfisher RTU maintains a timestamped log of every command sent to a controlled device within a network.

MULTIPLE REDUNDANCIES

Kingfisher RTU's are designed to operate in the most rugged and remote environments where system damage is inevitable, and site access is difficult. To reduce the impact of any incident on system operations, multiple layers of redundancy are available. These high availability RTU's can take a hit and keep on running until repairs are performed. Kingfisher RTU's support dual CPU's, dual power supplies, several communication modules with multiple, backup communications pathways and an integrated backup battery management system with temperature compensation.



CASE STUDY - MAXIMISING UPTIME

Beijing Gas Group is the second-largest gas distribution network in world. By the end of 2016, its natural gas network reached over 20,000 kilometres and supplies more than 5.89 million customers. The huge network is managed from a Master Control Centre (MCC) that includes SCADA, pipeline simulations, consumption forecasting and a geographic information system.

The redundancy-supporting capabilities of the Kingfisher are key to maximising uptime in the network. More than 381 RTUs have been installed in the system, so far, used for the monitoring and control of metered off takes, gas storage, CNG stations and pressure regulation stations. Kingfisher RTUs provide a highly resilient, powerful and secure modular automation platform for SCADA — as evidenced by the trust Beijing Gas Group has in this technology.



PROGRAMMING

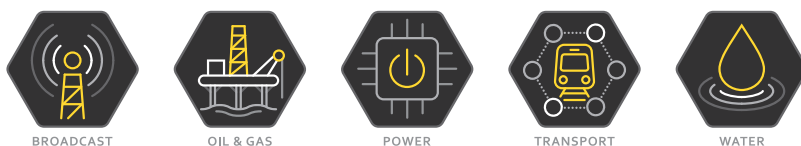
Kingfisher RTUs provide an open, programmable automation environment utilising industry standard IEC61131-3. Kingfisher’s configuration and programme development tool, Toolbox Plus, supports all five languages and includes a rich library of function blocks that provide built-in shortcuts to reduce time to deployment. All modules, including CPU, power supplies and comms cards can be hot swapped. This speeds up maintenance tasks and reduces the Mean Time To Repair (MTTR).

CONNECTIVITY

The Kingfisher Plus is the device of choice for remote monitoring and control. An advanced high-performance processor seamlessly interfaces with intelligent communications and I/O modules to exceed the needs of the most demanding remote monitoring and control applications. All connections are protected by state-of-the-art secure role-based access, IP whitelisting, a secure webserver, selective lockdown of features and audit log. The device’s protocols include Serial and IP versions of Modbus, DNP3 and Kingfisher; IEC60870-5-101 & 104, SNMP, HTTP, HTTPS and SSH. More are available on request.

SUITABLE APPLICATIONS:

CONTACT US:



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